Notice of Allowability	Application No.	Applicant(s)		
	08/843,711	BAGAOISAN ET AL.		
	Examiner	Art Unit		
	Sharon E. Kennedy	1615		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due o	d course. THIS	
1. This communication is responsive to <u>January 3, 2006</u> .				
2. The allowed claim(s) is/are <u>1 and 3-23</u> .				
<ul> <li>3. Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> </ul>				
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a)  including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)	5 Matica of Informal D	stant Application (DTO	152)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Informal Page 6. ☑ Interview Summary</li> </ol>		-104)	
	Paper No./Mail Dat	Paper No./Mail Date <u>08/08/2006</u> .  7. X Examiner's Amendment/Comment		
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ⊠ Examiner's Amendn			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	8.   Examiner's Statement of Reasons for Allowance		
	9.  Other			
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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gunther O. Hanke on August 10, 2006.

The application has been amended as follows:

# <u>AMENDMENT</u>

## In the Claims:

The claims have been re-written in the proper reissue format below.

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 (Amended) An intravascular catheter with an exchangeable shaft section, comprising:

a) an elongated tubular proximal shaft section having proximal and distal ends and a first inner lumen extending therein;

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- b) an elongated distal shaft section having proximal and distal ends, a port in the distal end of the distal shaft section, a second inner lumen extending therein in fluid communication with the first inner lumen in the proximal shaft section and a third inner lumen which is configured to slidably receive a guidewire and which extends therein to the port in the distal end of the distal shaft section[; and], the distal end of the proximal shaft section being releasably connected to the proximal end of the distal shaft section to effect fluid communication between the first and second inner lumens; and
- c) [means to releasably interconnect the distal end of the proximal shaft section and the proximal end of the distal shaft section to effect fluid communication between the first and second inner lumens] an inflatable balloon provided on the distal shaft section, having an interior in fluid communication with the second inner lumen in the distal section.

# 2. (Cancelled)

3. (Amended) The intravascular catheter of claim 1 [wherein the connector means includes] including male threads on an end of one of the shaft sections and

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female threads on a mating end of the other shaft section which are configured to threadably engage the male threads.

- 4. (Original) The intravascular catheter of claim 1 wherein the tubular proximal shaft section includes an inner tubular member disposed therein which has a fourth inner lumen which is configured to slidably receive a guidewire therein and which is in communication with the third inner lumen in the distal shaft section.
- 5. (Amended) The intravascular catheter of claim [2] 1 wherein means are provided on the proximal end of the proximal section for directing fluid through the first inner lumen extending therein and the second inner lumen in the distal section into the interior of the balloon.
- 6. (Amended) A [dilatation] catheter with an exchangeable shaft section, comprising:
- a) an elongated proximal shaft section having proximal and distal ends and [an] <u>a</u> first inner lumen extending therein to the distal end;
- b) an elongated distal shaft section having proximal and distal ends, a second inner lumen extending from the proximal end of the distal shaft section to a location spaced proximally from the distal end of the distal shaft section, a distal port in the distal end, a third inner lumen extending therein to and being in fluid

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communication with the distal port and being coextensive and parallel with at least part of the second inner lumen;

- c) [means to releasably connect] the distal end of the proximal shaft section being releasably connected to the proximal end of the distal shaft section to effect fluid communication between the first inner lumen of the proximal shaft section and the second inner lumen of the distal shaft section; and
- d) an inflatable [dilatation] balloon on the distal shaft section having an interior in fluid communication with the second inner lumen.
- 7. (Amended) The [dilatation] catheter of claim 6 [wherein the connecting means include] including male threads on an end of one of the shaft sections and matching female threads on a mating end of the other shaft section.
- 8. (Amended) The [dilatation] catheter of claim 7 wherein the proximal shaft section includes inner and outer tubular members, the distal shaft section includes inner and outer tubular members and the [threaded connecting means] threads are on mating ends of the inner tubular members of the proximal and distal shaft sections.
- 9. (Amended) The [dilatation] catheter of claim 7 wherein the proximal shaft section includes inner and outer tubular members, the distal shaft section includes inner and outer tubular members and the [threaded connecting means] threads are on mating ends of the outer tubular members of the proximal and distal shaft sections.

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10. (Original) A balloon catheter with an exchangeable shaft section,

comprising:

a) an elongated proximal shaft section having proximal and distal ends

and an first inner lumen extending therein to the distal end;

b) an elongated distal shaft section having proximal and distal ends, a

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second inner lumen extending from the proximal end of the distal shaft section to a

location spaced proximally from the distal end of the distal shaft section, a distal port in

the distal end of the distal shaft section, a third inner lumen extending within the distal

shaft section to the distal port and a third inner lumen extending therein coextensive

and parallel with at least part of the second inner lumen and being in fluid

communication with the distal port;

c) means to releasably connect the distal end of the proximal shaft section

and the proximal end of the distal shaft section to effect fluid communication between

the first inner lumen of the proximal shaft section and the second inner lumen of the

distal shaft section; and

d) an inflatable balloon on the distal shaft section having an interior in fluid

communication with the second inner lumen.

11. (Original) The balloon catheter of claim 10 including an expandable stent

which is mounted about the inflatable balloon in an uninflated condition and which is

configured to expand upon the inflation of the balloon.

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12. (Amended) A method of treating a patient's body lumen, comprising:

a) providing an intraluminal catheter which has an elongated catheter shaft, a proximal shaft section, a replaceable distal shaft section [and means to] releasably [connect the replaceable distal section with] connected to the proximal shaft section;

- b) advancing the intraluminal catheter through a patient's body lumen until the catheter is disposed within a desired region thereof;
- c) performing an intraluminal procedure within the body lumen with the intraluminal catheter;
  - d) withdrawing the intraluminal catheter from the patient;
- e) removing the replaceable distal shaft section of the intraluminal catheter;
- f) connecting a replacement distal shaft section to the proximal shaft section; and
- g) advancing the intraluminal catheter with the replacement distal shaft section into the patient's body lumen until the intraluminal catheter is disposed within a desired region of the patient's body lumen.
  - 13. (Amended) A method of treating a patient's body lumen, comprising:
- a) providing a dilatation catheter which has an elongated catheter shaft, a replaceable distal shaft section, a dilatation balloon on the replaceable distal shaft

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section, and a proximal shaft portion [and means to connect the proximal and] releasably connected to the distal shaft [sections] section;

- b) advancing the dilatation catheter through the patient's vasculature until the dilatation balloon is disposed within a stenotic region of a patient's artery;
  - c) withdrawing the dilatation catheter from the patient;
  - d) removing the replaceable distal shaft section of the catheter; [and]

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- e) connecting a replacement distal shaft section to the proximal shaft section; and
- f) advancing the catheter with the replacement distal shaft section into the patient's vasculature until the catheter is disposed within a desired region of the patient's vasculature.
- 14. (Original) The method of claim 13 wherein the replacement distal shaft section has an inflatable balloon with an expandable stent mounted about the inflatable balloon and when the inflatable balloon and stent mounted thereon are disposed within the desired region of the patient's vasculature, inflating the balloon to expand the stent within the desired region of the vasculature and then deflating the balloon so that the catheter can be removed, leaving the expanded stent within the patient's vasculature.
  - 15. (Amended) A dilatation catheter comprising:
- a) an elongated catheter shaft having proximal and distal ends, a quidewire port in the distal end, a quidewire receiving inner lumen extending to and

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being in fluid communication with the guidewire port and an inflation lumen extending to <u>a</u> location proximal to the distal end;

- b) a proximal shaft section having proximal and distal ends and at least part of the inflation lumen extending therein to the distal end of the proximal shaft section; and
- c) a replaceable distal shaft section having a proximal end, being releaseably connected by said proximal end of the distal shaft section to the distal end of the proximal shaft section, at least part of the inflation lumen extending within the distal shaft section distally therein from the proximal end of the distal shaft section to the location proximal to the distal end of the catheter shaft; and
- d) a dilatation balloon on the distal shaft section surrounding the location having an interior in fluid communication with the portion of the inflation lumen extending within the distal shaft section.
  - 16. (Original) An intravascular catheter comprising:
- a) a proximal shaft section having a proximal end, a distal end and an inner lumen extending therein;
- b) a distal shaft section having a proximal end, a distal end, a port in the distal end, a second inner lumen extending therein in fluid communication with the inner lumen of the proximal shaft section and a third inner lumen extending parallel and at least partially coextensive with the second inner lumen within the distal shaft section

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and in fluid communication with the port in the distal end of the distal shaft section;

- c) means to releasably connect the proximal end to the distal shaft section to the distal end of the proximal shaft section.
- 17. (Original) The intravascular catheter of claim 16 wherein the distal shaft section is releasably connected to the proximal shaft section by means of interconnecting threads on the distal end of the proximal shaft section and on the proximal end of the distal shaft section.
- 18. (Original) The intravascular catheter of claim 17 wherein the threads on the distal end of the proximal shaft section are male threads and the mating threads on the proximal end of the distal section are female threads.
- 19. (Original) The intravascular catheter of claim 17 wherein the proximal section is a metallic tube.
- 20. (Original) The intravascular catheter of claim 19 wherein the metallic proximal shaft section has male threads on the distal end thereof.
- 21. (Original) The intravascular catheter of claim 17 wherein the means to releasably connect the proximal end of the distal shaft section to the distal end of the

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proximal shaft section includes an intermediate tubular element which has proximal

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and distal ends, threads on at least one of said ends which match the threads on the

mating end of one of the shaft sections with the other of said ends of the intermediate

tubular element being secured to the mating end of the other shaft section.

22. (Original) The intravascular catheter of claim 21 wherein threads are on the

proximal end of the intermediate tubular element and the distal end of the proximal

shaft section.

23. (Original) The intravascular catheter of claim 21 wherein threads are on the

distal end of the intermediate tubular element and the proximal end of the distal shaft

section.

24-32. (Cancelled)

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#### Remarks

The amendment was necessary in view that applicant's set of January 3, 2006 contained minor errors in transcription from the original claim set. The examiner also added the original claims back into the list to ease printing problems.

## Allowable Subject Matter

Claims 1, 3-23 are allowed for reasons of record.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharon E. Kennedy whose telephone number is 571/272-4948. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on 571/272-8373.

> Sharon Kennedy Sharon E. Kennedy **Primary Examiner**

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